

**SINGLEMODE**

**OS2**

9/125µm

## OS2 SINGLEMODE FIBRE OPTIC PATCH LEADS

Optical fibre cables are the thin, flexible fibres of glass that carry telephone conversations and emails all over the world in a matter of seconds with much less interference than copper cables. Fibre-Optic cables need less amplification to boost signals so they travel better over longer distances.

4Cabling's OS2 Singlemode Fibre Optic Patch Leads provide connection for high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet and are immune to EMI/RFI. They are mainly used on patch panels for the connection between outlets and terminal equipment. The multimode optical fibre cables are manufactured using LSZH cables which conform to IEC, EIA TIA and Telecordia standards.

When it comes to making the fibre, all the materials and machines used in manufacturing are top grade – the same materials and machines are also used by multinational companies such as GM and Samsung, and our professional engineering teams work in accordance with IEC standards. All our fibre leads are manufactured to strict quality control measures. At 4Cabling we pride ourselves on delivering a high performance product at a cost-effective price.

### FEATURES

- OS2 Fibre patch leads conform to ITU-T G.652.D, TIA/EIA 492CAAB
- Conforms to ISO/IEC 11801
- Individually labelled for lead tracing
- Low smoke zero halogen (LSZH) cable
- Corning fibre and dupont kevlar used in manufacturing
- Tensile strength more than 200N. Junction to connector 70N
- High-grade ceramic ferrules with concentricity <0.8µm for multimode, single mode less than 0.5µm
- Manufactured with stringent quality control
- Simplex and Duplex configurable assemblies for LC, SC Patch leads
- All leads are supplied with a factory test report in accordance with Telcordia GR326 standards
- Norland interferometer for testing geometry parameters pass rate
- IL & RL tested for insertion loss and return loss
- All connectors are available on request
- All ends are polished and individually inspected for correct polishing
- Supports high speed multi-channel data, voice & video applications
- Available in standard yellow colour
- UPC (Ultra Physical Contact) connector





## OS2 SINGLEMODE FIBRE OPTIC PATCH LEADS

### SPECIFICATIONS

#### Connector Specification

Connector Type: ST, FC, SC, LC

	SM/APC	SM/PC	MM/PC OM3/4
I.L (97%)	<=0,15dB	<=0,15dB	<=0,25dB
I.L typical value	<=0,12dB	<=0,12dB	<=0,20dB
R.L (97%)	>=60 dB	>=45 dB	>=35 dB
R.L typical value	>=65 dB	>=55 dB	>=35 dB

#### Cable Specification

CHARACTERISTICS	SIMPLEX	DUPLEX
Cable Material	LSZH	LSZH
Strength Member	Aramid	Aramid
Crush (N)	1000	1000
Operating Temp. (C°)	-20 to 60	-20 to 60
Fire Specification	IEC 60332-1	IEC 60332-1

#### Fibre Specification

##### CHARACTERISTICS

Attenuation (dB)/km	2.8 @ 850nm / 0.8 @ 1310nm
Bandwidth OFL (MHz x km)	1500 @ 850nm / 500 @ 1310nm
Bandwidth LEMB (MHz x km)	2000 @ 850nm



## OS2 SINGLEMODE FIBRE OPTIC PATCH LEADS

### SPECIFICATIONS

	Core/Cladding Diameter (µm)	Fast Ethernet 100BASEFX	1 Gigabit 1000BASE-SX	1 Gigabit 1000BASE-LX	10 Gigabit 10GBASE	40 Gigabit 40GBASE	100 Gigabit 100GBASE
<b>Multimode</b>							
OM1	62.5/125	2000 Meters	275 Meters	550 Meters	33 Meters	N/A	
OM2	50/125		550 Meters		82 Meters		
OM3*					300 Meters	100 Meters	100 Meters
OM4*					400 Meters	150 Meters	150 Meters
<b>Singlemode</b>							
OS1	9/125	2000 Meters	5 km at 1310nm	5 km at 1310nm	10 km at 1310nm		
OS2	9/125	2000 Meters	5 km at 1310nm	5 km at 1310nm	10 km at 1310nm		

\* Laser Optimised

### CERTIFICATIONS AND APPROVALS

ITU-T G.652.D, TIA/EIA 492CAAB, ISO/IEC 11801 and Telecordia standards

